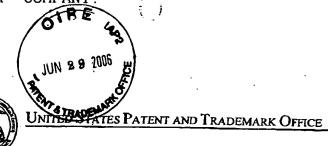
USPTO S/24/2004 3:21 PM PAGE 2/004 Fax Server Richard Bork COMPANY:



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
· 09/767,981	01/23/2001	Ejvind Jensen	4343.214-US	2751
7590 03/01/2004		EXAMINER		
Novo Nordisk North America, Inc. Suite 6400			ROMEO, DAVIDS	
405 Lexington Avenue New York, NY 10174-6401			ART UNIT	PAPER NUMBER
			1647	
•			DATE MAILED: 03/01/2004	;

Please find below and/or attached an Office communication concerning this application or proceeding.

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TRADENISTE	Application No.	Applicant(s)	ENTE POOS
Advisory Action	09/767,981	JENSEN ET AL.	59/60
	Examiner	Art Unit	00/200
The AVAILABLE DATE AND A	David S Romeo	1647	
The MAILING DATE of this communic			·\$3
THE REPLY FILED 21 October 2003 FAILS T Therefore, further action by the applicant is req inal rejection under 37 CFR 1.113 may only be condition for allowance; (2) a timely filed Notice Examination (RCE) in compliance with 37 CFR	uired to avoid abandonment of the either: (1) a timely filed amendo and the control with appeal feet; or (nis application. A proper reply	y to a
	FOR REPLY [check either a) or	b)]	•
a) The period for reply expires months from	the mailing date of the final rejection.		
b) The period for reply expires on: (1) the mailing date event, however, will the statutory period for reply at ONLY CHECK THIS BOX WHEN THE FIRST RI 706.07(f).	KDIFE CALES TO AN ALL MALLIN LIES FROM The mark	ing data of the first seisser	
Extensions of time may be obtained under 37 CFR 1.136 ave been filed is the date for purposes of determining the per-	IOO OI AVIADEIOD and the corresponding on.	and all the fire The control of the	
7 CFR 1.17(a) is calculated from: (1) the expiration date of the properties of the control of th			
A Notice of Appeal was filed on <u>21 Octob</u> 37 CFR 1.192(a), or any extension there	er 2003. Appellant's Brief must be of (37 CFR 1.191(d)), to avoid dis	e filed within the period set for	rth in
2. The proposed amendment(s) will not be	entered because:	mosor or the appear.	
(a) they raise new issues that would req	•	search (see NOTE helow)	
- (b) ☐ they raise the issue of new matter (s	ee Note below):	search (see NOTE below),	·.
(c) they are not deemed to place the application issues for appeal; and/or		by materially reducing or sim	ıplifying the
(d) ☐ they present additional claims without NOTE:	ut canceling a corresponding num	nber of finally rejected claims	
B. Applicant's reply has overcome the follow	vina rejection(s):		
Newly proposed or amended claim(s) canceling the non-allowable claim(s).	would be allowable if submitte	d in a separate, timely filed a	mendment
. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ reapplication in condition for allowance because	equest for reconsideration has be ause: See Continuation Sheet.	en considered but does NOT	place the
. The affidavit or exhibit will NOT be consideral released by the Examiner in the final rejection.	lered because it is not directed S	OLELY to issues which were	newly
 For purposes of Appeal, the proposed am explanation of how the new or amended 	endment(s) a)□ will not be enter claims would be rejected is provid	ed or b) will be entered and led below or appended.	d an
The status of the claim(s) is (or will be) as		••	
Claim(s) allowed:			}
Claim(s) objected to:			
Claim(s) rejected: 15-23.			(
Claim(s) withdrawn from consideration:	 ·		
☐ The drawing correction filed on is a		ved by the Examiner.	
☐ Note the attached Information Disclosure			
. Other:	CAC - C - Croy Capor I		}
•	•	.	
•		David S Romeo Primary Examiner	~
start and Trademark Office		Art Unit: 1647	

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4/004

Fax Server

Continuation Sheet (PTOL-303) 09/767,981

Application No.

Continuation of 5. does NOT place the application in condition for allowance because: Claims 15-23 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for GLP-1, does not reasonably provide enablement for GLP-1 compounds. Applicant argues that the specification teaches how to prepare a thixotropic gel. Applicant's arguments have been fully considered but they are not persuasive because this argument is not germane to the present rejection. With respect to GLP-1 compounds Applicant argues that the present application discloses GLP-1 compounds that can be used to formulate the compositions of the invention, and that analogs and derivatives of GLP-1 were known in the prior art. Therefore, the present application teaches the materials and conditions necessary to produce the claimed compositions. The scope of the term "GLP-1 compound" does not bear a reasonable correlation to the scope of enablement provided by the specification because the specification only reasonably enables compounds comprising fragments of the amino acid sequence of GLP-1 wherein said fragments bind the GLP-1 receptor, whereas the scope of the term "GLP-1 compound" encompasses any and all compounds having GLP-1 like activity.

Claims 15-23 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant argues that the present application discloses GLP-1 compounds that can be used to formulate the compositions of the invention, and that analogs and derivatives of GLP-1 were known and understood by the prior art, such as U.S. Patent Nos. 5,545,618, 5188,666, and 5,120,712. Applicant's arguments have been fully considered but they are not persuasive. U.S. Patent Nos. 5,545,618 and 5188,666 are not disclosed in the present disclosure. The claimed GLP-1 analogs and derivatives in U.S. Patent No. 5,120,712 all comprise a specific amino acid sequence. In contrast, the present claims do not require any specific amino acid sequence.

Claims 15-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, over the recitation of the term *GLP-1 compound.* Applicant argues that the present application discloses GLP-1 compounds that can be used to formulate the compositions of the invention, and that analogs and derivatives of GLP-1 were known and understood by the prior art, such as U.S. Patent Nos. 5,545,618, 5188,666, and 5,120,712. Applicant's arguments have been fully considered but they are not persuasive. U.S. Patent Nos. 5,545,618 and 5188,666 are not disclosed in the present disclosure. The claimed GLP-1 analogs and derivatives in U.S. Patent No. 5,120,712 all comprise a specific amino acid sequence. In contrast, the present claims do not require any specific amino acid sequence. The metes and bounds are not clearly set forth.

Claims 15-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Danley (4, cited by Applicants) in view of Avis (u10), and further in view of Galloway (a13), Schott (y7), and Ballard (x7). In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. The phenol and zinc elements of the presently daimed invention are all found in Danley. Danley teaches that a prolonged delivery formulation being an aqueous suspension of Insulinotropin precipitates or aggregates can be formed by using precipitants for example, phenolic compounds or basic polypeptides or metal ions or salts, and/or by using high shear and that more than one precipitant can be used at one time (page 18, lines 43-45). The examiner relies upon Avis for teaching that phenol is an antimicrobial agent. The examiner does not rely upon Galloway to supply zinc. Although Ballard may disclose other methods besides thixotropy for achieving prolonged action, Ballard discloses the advantages of thixotropy (page 1610, right column, full paragraph 3), which would motivate one of ordinary skill in the art to select thixotropy. The precipitation of GLP-1 by zinc is recognized by both Danley and Galloway. Danley recognizes that this is useful for the creation of a prolonged delivery formulation. Furthermore, Schott teaches that thixotropy is particularly useful in the formulation of pharmaceutical suspensions and emulsions; thixotropy can be used to solve the dilemma involving low viscosity and rapid settling of solid particles in suspensions and rapid creaming of emulsions; thixotropy prevents sedimentation and claying of suspended particles; Schott also teaches thixotropic agents (page 318, column 1, full paragraph 1). The precipitation of GLP-1 zinc would motivate one of ordinary skill in the art to select thixotropy because thixotropy prevents sedimentation and claying of suspended particles. Thus, the teaching of the precipitation of GLP-1 with zinc is not a teaching away from the creation of a prolonged delivery formulation or the creation of a get comprising GLP-1 and zinc.